

## Claims

We claim:

1. A calibration circuitry, comprising:

an adjustable capacitor, the adjustable capacitor having a capacitance that varies in response to a control signal;

a voltage generator, the voltage generator configured to provide a measurement voltage that depends on the capacitance of the adjustable capacitor;

a reference voltage generator, the reference voltage generator configured to provide a reference voltage; and

a controller, the controller configured to provide the control signal based on the relative values of the reference voltage and the measurement voltage.

2. A radio-frequency (RF) apparatus, comprising:

a first circuit partition, comprising receiver analog circuitry configured to produce a digital receive signal from an analog radio-frequency signal; and

a second circuit partition, comprising receiver digital circuitry configured to accept the digital receive signal, wherein the first and second circuit partitions are partitioned so that interference effects between the first circuit partition and the second circuit partition tend to be reduced.